

Data sheet

Durethan BKV130CS 600091

PA 6-Copolymer, 30 % glass fibers, injection molding, improved impact strength

ISO Shortname: ISO 16396-PA 6/66-I,GF30,GR,S14-090

Property	Test Condition	Unit	Standard	guide value	
				d.a.m.	cond.
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9500	
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	140	
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.3	
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	65	
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	10	
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	<10	
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	65	
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	65	
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	12	
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	<10	
Flexural modulus	2 mm/min	MPa	ISO 178-A	8500	
Flexural strength	2 mm/min	MPa	ISO 178-A	220	
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.5	
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	220	
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	213	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	200	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	210	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10-4/K	ISO 11359-1,-2	0.2	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10-4/K	ISO 11359-1,-2	1.1	
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB	
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB	
Other properties (23 °C)					
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	7	
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	2	
C Density		kg/m³	ISO 1183	1360	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	280	
C Injection molding-Mold temperature		°C	ISO 294	80	
Processing recommendations					
Drying temperature dry air dryer		°C	-	80	
Drying time dry air dryer		h	-	2-6	
Residual moisture content		%	Acc. to Karl Fischer	0.03-0.12	
Melt temperature (Tmin - Tmax)		°C	-	260-290	
Mold temperature		°C	-	80-100	

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling LANXESS products

mentioned in this publication. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets (MSDS) and product labels. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS. For materials that are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer(s) must be followed.

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Color and Visual Effects

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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